



Visual Force

User manual

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1 Product introduction

1.1 Introduction to Visual Force

Visual Force is a video streaming server that can be used in party rooms, private KTV rooms, small bars, etc. Using advanced video processing technology and sophisticated system design, the functions and performance of a large dedicated video server are realized on a compact architecture. It supports full HD, high-quality video output with a high bit rate, supports double-layer special effects video superposition, and picture-in-picture functions for external video.

The Visual Force Pro version uses OSC protocol control to seamlessly connect Playeah's "IMFA" and RT-MC" technology to switch the arrangement of the special effects images according to the music paragraph, intensity, speed, and beat in real time, playback speed, image color, and clarity, etc., so that the special effects images are more closely integrated and coordinated with the music. It can support the interconnection of more third-party sound and light equipment controls, making it ideal for a new generation of immersive, interactive high-end sound and light entertainment and commercial application scenarios.

Every piece of material can be changed remotely with Playeah Video Tools software.

1.2 Visual force product parameters

Processing core:	AMD 64bit 8core CPU	Storage:	8GB RAM, 512GB SSD
Operating system:	Linux	Video bitrate:	55Mbps
Video input channels:	1ch	Video output channels:	2ch
Video resolution:	4K、 Full HD 1920 * 1080P	Video frame rate:	60FPS
Footage capacity:	> 200GB	Video format:	MOV
Audio control interface:	2*RCA	Video interface:	2*HDMI
Network Interfaces:	2 * RJ45	Power supply:	DC19V-3V
USB interface:	3 * USB3.0	Weight:	2kg
Dimensions:	485mm*165mm*45mm	Material group:	PRO: 96 groups
Audio Outputs:	PRO: 2*RCA		
Control protocol:	PRO: OSC, DMX512		

1.3 Visual force product illustration

Visual forces PRO:



1.4 ArtNet Channel and OSC Instruction Description

LAN1 is a fixed IP address: 192.168.188.201, domain address: 1, starting channel: 1

If you need to make changes, use Playeah VideoTools.

LAN2 is the DHCP address, domain address: 1, starting channel: 1

It cannot be changed.

LAN1 and LAN2 can only be connected one at the same time.

Artnet channel description:

1 channel (or 15 loop scene channel) selects the scene, and can select any value in 0-255.

4 channel playback speed (value fixed 128),

5 channel voice control sensitivity (the value is fixed at 128, if the voice control is insensitive, it can be adjusted appropriately),

For each scene, except for the above channels, the value of other channels is fixed at 255.

功能	ARTNET通道	数值			场景	备注
场景切换	1	1	-	7	场景A	3分钟循环
		8	-	15	场景B	
		16	-	23	场景C	
		24	-	31	场景D	
		32	-	39	场景E	
		40	-	47	场景F	
		48	-	55	场景G	
		56	-	63	场景H	
		64	-	71	场景I	
		72	-	79	场景J	
		80	-	87	场景K	
		88	-	95	场景L	
		96	-	103	场景M	
		104	-	111	场景N	
		112	-	119	场景O	
		120	-	127	场景P	
		128	-	135	场景Q	
		136	-	143	场景R	
		144	-	151	场景S	
		152	-	159	场景T	
		160	-	167	场景U	
		168	-	175	场景V	
		176	-	183	K歌1	
		184	-	191	K歌2	
		192	-	199	K歌3	
		200	-	207	K歌4	
		208	-	215	生日	
		216	-	223	轻音乐	
224	-	231	自定义1			
232	-	239	自定义2			
240	-	247	自定义3			
248	-	255	自定义4			

功能	ARTNET通道	数值			场景
素材选择	2	1	-	7	素材01
		8	-	15	素材02
		16	-	23	素材03
		24	-	31	素材04
		32	-	39	素材05
		40	-	47	素材06
		48	-	55	素材07
		56	-	63	素材08
		64	-	71	素材09
		72	-	79	素材10
		80	-	87	素材11
		88	-	95	素材12
		96	-	103	素材13
		104	-	111	素材14
		112	-	119	素材15
		120	-	127	素材16
		128	-	135	素材17
		136	-	143	素材18
		144	-	151	素材19
		152	-	159	素材20
		160	-	167	素材21
		168	-	175	素材22
		176	-	183	素材23
		184	-	191	素材24
		192	-	199	素材25
		200	-	207	素材26
		208	-	215	素材27
		216	-	223	素材28
		224	-	231	素材29
		232	-	239	素材30
		240	-	247	素材31
		248	-	255	素材32

功能	ARTNET通道	数值			备注
背景视频亮度	3	0	-	255	
视频播放速度	4	0	-	255	
声控灵敏度	5	0	-	255	
主屏背景视频颜色比例（0-100%）	6	0	-	255	
红（0-100%）	7	0	-	255	
绿（0-100%）	8	0	-	255	
蓝（0-100%）	9	0	-	255	
声控视频颜色比例（0-100%）	10	0	-	255	
红（0-100%）	11	0	-	255	
绿（0-100%）	12	0	-	255	
蓝（0-100%）	13	0	-	255	
自定义场景单个素材循环播放	14	0	-	85	
自定义场景素材顺序播放	14	86	-	170	
自定义场景素材随机播放	14	171	-	255	
随机循环场景	15	1	-	255	3分钟随机循环

Instructions for the DJ version of the OSC command:

功能	osc数据	数据	备注
场景切换	/scene	1	场景1
	/scene	2	场景2
	/scene	3	场景3
	/scene	4	场景4
	/scene	5	场景5
	/scene	6	场景6
	/scene	7	场景7
	/scene	8	场景8
	/scene	9	K歌1
	/scene	10	K歌2
	/scene	11	K歌3
	/scene	12	K歌4
	/scene	13	K歌5
	/scene	14	K歌6
	/scene	15	K歌7
	/scene	16	K歌8
	/scene	17	K歌9
	/scene	18	K歌10
	/scene	19	生日
	/scene	20	轻音乐
	/scene	21	自定义1
	/scene	22	自定义2
	/scene	23	自定义3
	/scene	24	自定义4

功能	osc数据	数据	备注
素材选择	/channel1	1	
	/channel1	2	
	/channel1	3	
	/channel1	4	
	/channel1	5	
	/channel1	6	
	/channel1	7	
	/channel1	8	
	/channel1	9	
	/channel1	10	
	/channel1	11	
	/channel1	12	
	/channel1	13	
	/channel1	14	
	/channel1	15	
	/channel1	16	
	/channel1	17	
	/channel1	18	
	/channel1	19	
	/channel1	20	
	/channel1	21	
	/channel1	22	
	/channel1	23	
	/channel1	24	
	/channel1	25	
	/channel1	26	
	/channel1	27	
	/channel1	28	
	/channel1	29	
	/channel1	30	
	/channel1	31	
	/channel1	32	

功能	osc数据	数据	备注
背景视频亮度	/channel1/light	0-1	
视频播放速度	/video/tempo	0-1	
声控灵敏度	/soundcontrol	0-1	
主屏背景视频颜色比例 (0-100%)	/channel1/colormixing	0-1	
红 (0-100%)	/channel1/red	0-1	
绿 (0-100%)	/channel1/green	0-1	
蓝 (0-100%)	/channel1/blue	0-1	
声控视频颜色比例 (0-100%)	/channel2/colormixing	0-1	
红 (0-100%)	/channel2/red	0-1	
绿 (0-100%)	/channel2/green	0-1	
蓝 (0-100%)	/channel2/blue	0-1	
自定义场景单个素材循环播放	/custom/playmode	1	
自定义场景素材顺序播放		2	
自定义场景素材随机播放		3	

循环场景	/auto	1	3分钟循环
随机循环场景	/auto	2	3分钟循环

2 Video Tools User Guide

Video Tools is a tool for remote control of the visual force video server and replacement of visual force server video footage. The tool needs to be opened on another computer device, and the computer device needs to be in the same local area network as the visual motion video server.

Before using Video Tools to replace the video, first convert the format of the replaced video to DVX3 format, use the Adobe Media Encoder software, and set the format to be converted in the software as shown in the figure below:



Once the format is converted, you can start replacing videos with Video Tools. Video Tools doesn't need to be installed, just open and use.

2.1 VideoTools login name and password

Once the Visual Force Video Server is installed, the installer will activate VideoTools and open an account. Before using, please ask the installer for the activated account and password of the machine.

This account will be associated with all the functions of VideoTools and is also a key certificate for future renewal, upgrade and service. Please keep and manage it properly.

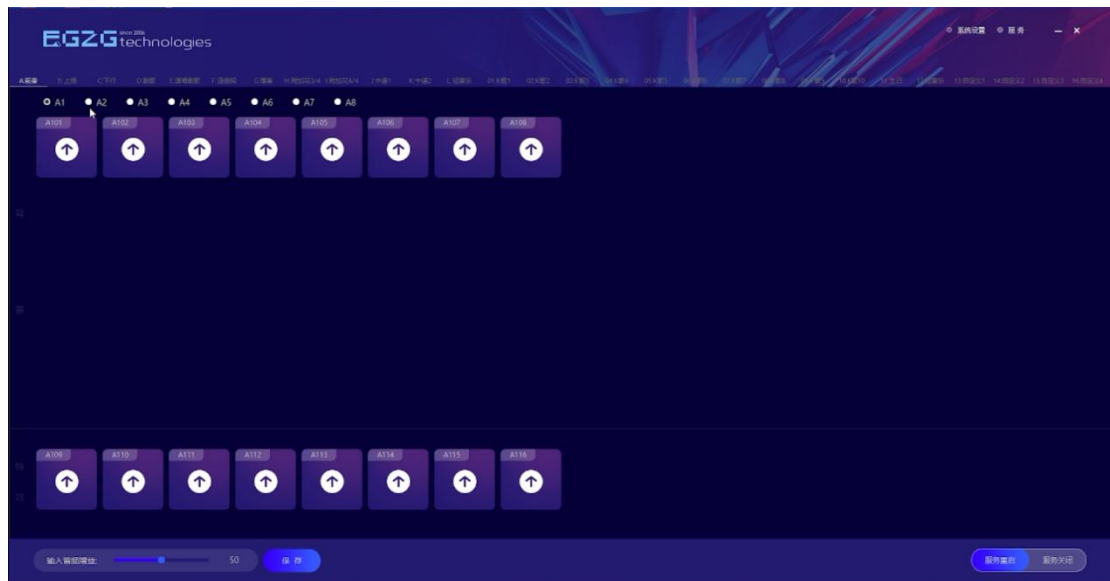
VideoTools will perform network verification every time you log in, please ensure that the device is online during work.

The user enters the account number and password, selects the version of Vision force, and then enters VideoTools to start using.



2.2 VideoTools interface description

Interface overview:



Key Instructions:

"Server IP": Visual force video server IP address input box

"Connect and Save": After IP input, click to connect to the visual force video server




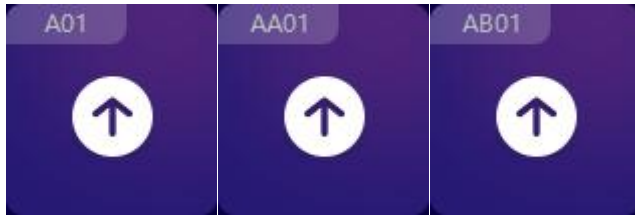
"Start service": After the connection is successful, click to start the visual force video server

"Close service": Click to turn off the visual motion video server



Input audio gain: Drag the slider to adjust the gain of input audio

"": Click to pop up the path selection box. Select the video file to be replaced to upload and replace



The letter “A” represents the background material layer, the letter “AA” represents the special effects material layer, and the letter “AB” represents the secondary screen material layer.



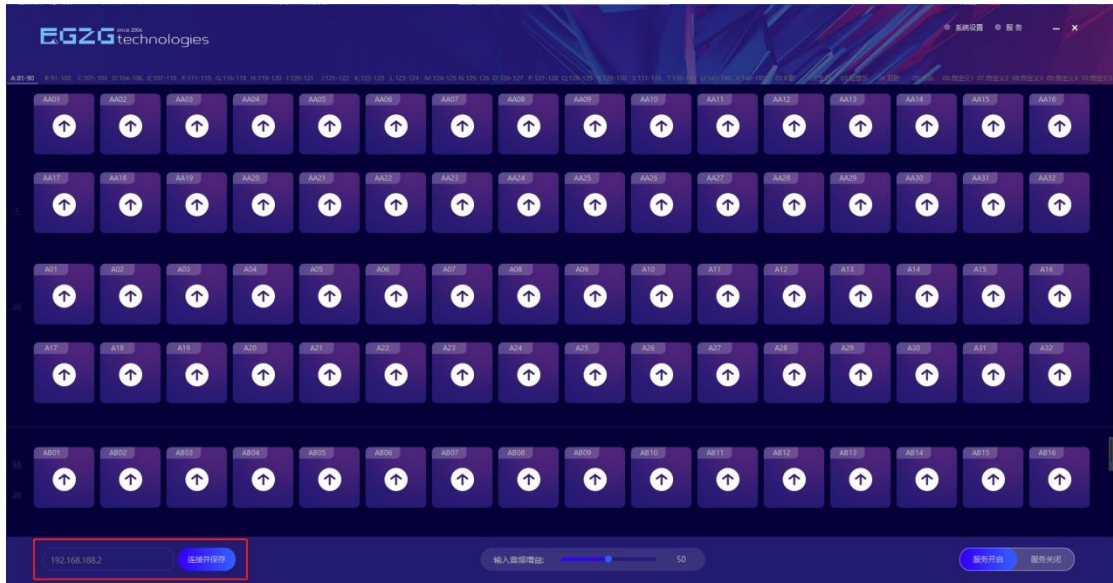
Each letter represents a range of BPM values, and you can click to turn the page.

2.3 Connect to the visual force video server

An additional Windows computer device is required to connect to the Vision Video Server. The computer device needs to be in the same local area network as the Vision Video Server. Open the VideoTools program on this computer. The IP address used by the Visual forces Video Server will be displayed at **the top of the screen when the Visual forces Video Server is started**. Users only need to enter **the displayed IP address** in the red frame shown in the image and click **“Connect and Save”** to connect to the Visual forces Video Server.

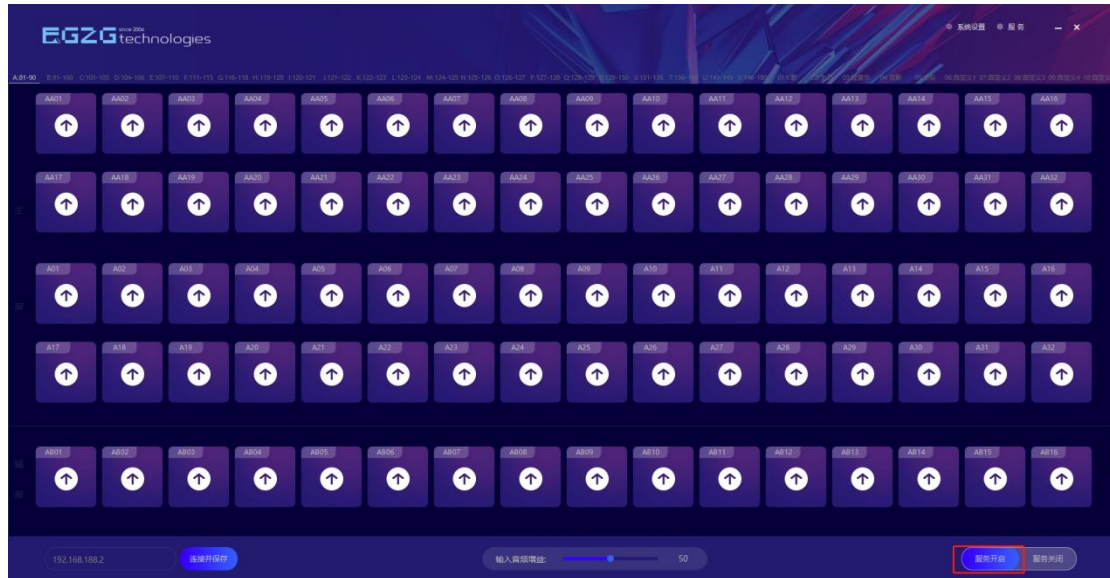
After the connection is successful, the page will pop up a successful prompt box. If the connection fails, please click **“Connect and Save”** again. If it still fails, please check the network.

Please do not enter a different address at will.

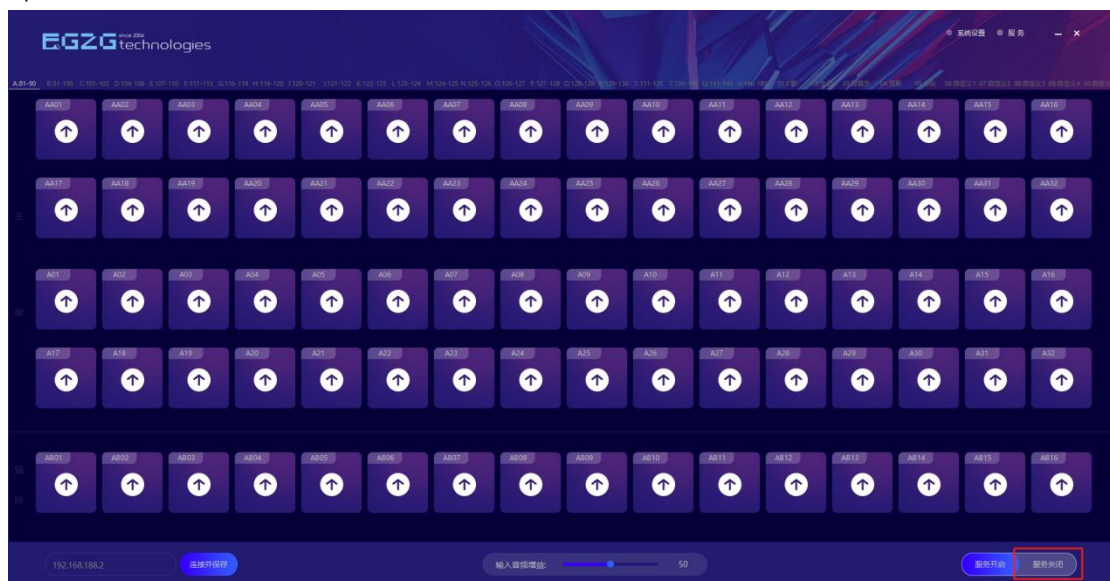


2.4 Open/Close the Visual forces Video Server

After the prompt box of successful connection pops up, click **"Start Service"** to start the Visual forces video server, and a prompt box will pop up after opening.



Click **"Close Service"** to shut down the visual force video server, and a prompt box will pop up after successful shutdown.

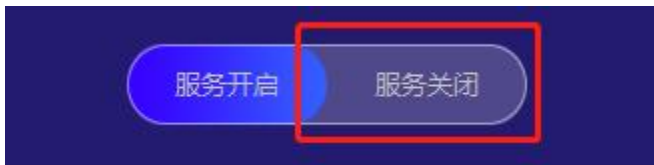



If the message fails to open/close, you need to **check if VideoTools is successfully connected to the visual force video server.**

2.5 VideoTools material replacement

Method 1: VideoTools Tool Replacement

1. When using VideoTools to replace footage, you must ensure that the server is connected to Videotools.
2. Before uploading the replacement video, please click "**Close Service**", and a prompt box of successful closure will pop up before proceeding to the next step.



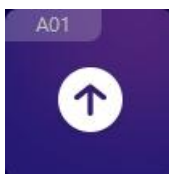
3. Click the "" button, the path selection box will pop up, select the corresponding path of the replacement material, confirm to upload, a progress bar will appear at the bottom of the upload, and the upload is successful when the progress bar reaches 100. Only after a video material is successfully uploaded can it be uploaded. a material.



4. If you need to change the page, click the **letter box below** to change the corresponding BPM page.

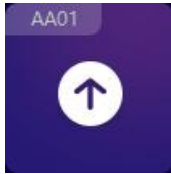


5. The letter "**A**" represents the background material layer, the letter "**AA**" represents the special effects material layer, and the letter "**AB**" represents the secondary screen material layer.



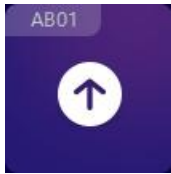
The first underlying material on page A, and so on, B01 is the first

underlying material on page B.



The first special effects material on page A, and so on, BA01 is the first

special effects material on page B.



The first sub-screen material on page A, and so on, BB01 is the first

sub-screen material on page B.

Method 2: USB flash drive replacement

Description of the folder path on the USB flash drive:

Single letter folders A~V are the underlying materials.

 A

 B

 C

 D

 E

 F

 G

 H

The folder with the double letter suffix A is a special effects material. For example, BA is the special effects material for scene B.

 AA

 BA

 CA

 DA

 EA

 FA

 GA

 HA

 1

 2

 3

 4

 5

 6

 7

 8

 9

 10

1-4 is the K-song 1-4 scene folder

5 is the birthday scene folder (single material loop)

6 is a light music scene folder

7 to 10 are custom scene folders (single material loop)

If you need to replace scene A, the underlying material is the eighth. Then delete the folder outside of A.



Rename the material to be replaced as A08, overwrite it in folder A, and then delete files outside of A08.



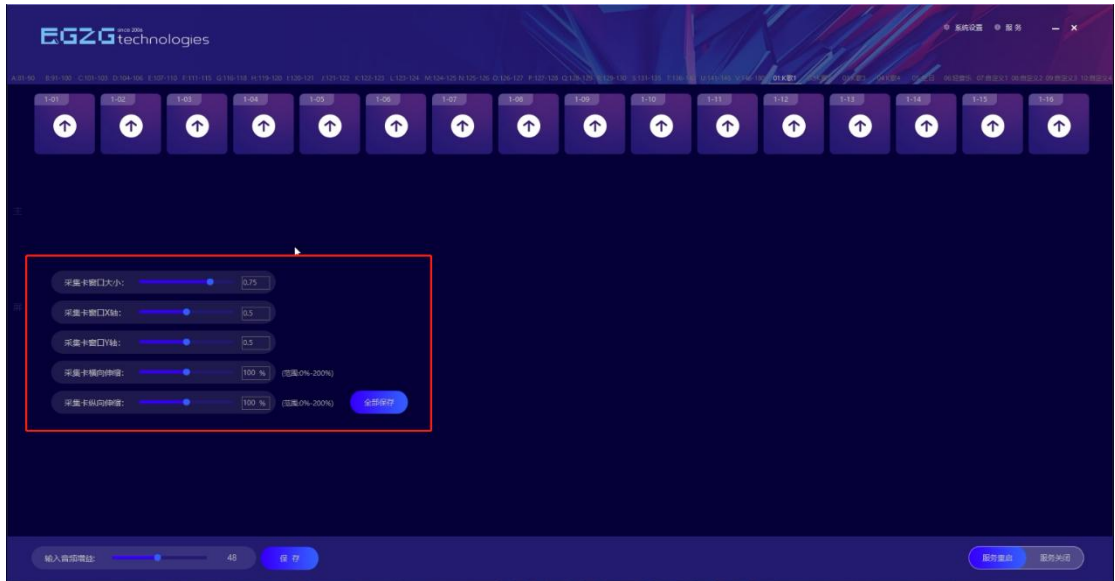
Just copy the “Visual forces Material Update Package” folder to the root directory of the USB flash drive. Once the visual force is turned on, plug it in to the USB flash drive to automatically update the material.

Note: 1 The replacement material only supports MOV format (for details, please refer to the method of converting MOV format)

2 Please do not copy the empty “Visual forces Update Package” directly to the USB flash drive to update the footage. This will cause all the footage in the Visual forces video server to be lost!

2.6 Jukebox capture screen adjustment

Click “**K Song**” to go to the K Song scene page.



The size and position of the screen can be adjusted according to the actual situation. The initial value of the window size is 0.75, the initial value of the X and Y axes of the acquisition card is 0.5, and the initial value of the horizontal and vertical expansion of the acquisition card is 100.